

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of
Jyrki Kauppinen
Application No.: 10/529,597
Filing Date: March 30, 2005
Title: PHOTOACOUSTIC DETECTOR

Group Art Unit:
Examiner:
Confirmation No.: 1736

**FIRST
INFORMATION DISCLOSURE STATEMENT
TRANSMITTAL LETTER**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed is a FIRST Information Disclosure Statement and accompanying form PTO-1449 for the above-identified patent application.

- ☒ No additional fee for submission of an IDS is required.
- ☐ The fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e) is also enclosed.
- ☐ A statement under 37 C.F.R. § 1.97(e), and the fee of \$180.00 (1806) as set forth in 37 C.F.R. § 1.17(p) are also enclosed.
- ☐ Charge _____ to Deposit Account No. 02-4800 for the fee due.
- ☐ A check in the amount of _____ is enclosed for the fee due.
- ☐ Charge _____ to credit card. Form PTO-2038 is attached.

The Director is hereby authorized to charge any appropriate fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 02-4800. This paper is submitted in duplicate.

Respectfully submitted,

BUCHANAN INGERSOLL PC

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

By Matthew L. Schneider
Matthew L. Schneider
Registration No. 32,814

Date: December 29, 2005

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Jyrki Kauppinen

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FIRST INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure as set forth in 37 C.F.R. § 1.56, the accompanying information is being submitted in accordance with 37 C.F.R. §§ 1.97 and 1.98.

Pursuant to 37 C.F.R. § 1.98, a copy of each of the documents cited is enclosed.

The documents are being submitted within three (3) months of the filing or entry of the national stage of this application or before the first Office Action on the merits, whichever is later. Since these documents are being filed within the time period set forth in 37 C.F.R. § 1.97(b), no fee or statement is required.

To assist the Examiner, the documents are listed on the attached form PTO-1449. It is respectfully requested that an Examiner initialed copy of this form be returned to the undersigned.

Respectfully submitted,

BUCHANAN INGERSOLL PC

Date December 29, 2005

By: 

Matthew L. Schneider
Registration No. 32,814

P.O. Box 1404
Alexandria, Virginia 22313-1404
(703) 836-6620

Substitute for form 1449A/PTO & 1449B/PTO FIRST INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known	
			Application Number 0/529,597	
			Filing Date March 30, 2005	
			First Named Inventor Jyrki Kauppinen	
			Examiner Name	
Sheet 1 of 1	Attorney Docket Number 028443-071			

U.S. PATENT DOCUMENTS				
Examiner Initials	Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Issue/Publication Date (MM-DD-YYYY)
	4,355,234	A	Glenn H. Fertig et al.	10-19-1982
	4,557,603	A	Oskar Oehler et al.	12-10-1985
	6,082,178	A	Ralph Bernstein et al.	07-04-2000
	6,474,168	B1	Frode Meringdal	11-05-2002
	6,222,190	B1	Ralph Bernstein et al.	04-24-2001

FOREIGN PATENT DOCUMENTS										
Examiner Initials	Document Number	Kind Code (if known)	Country	Date of Publication (MM-DD-YYYY)	STATUS					
					Translation	Partial Translation	Eng. Lang. Summary	Search Report	IPER	Abstract Spec
	*0 389 071	A2	Europe	09-26-1990				X		
	*1 211 501	A1	Europe	06-05-2002					X	
	*03/046498	A1	WO	06-05-2003						
	*95/34917	A1	WO	12-21-1995						

NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
	*LEDERMANN, Nicolas et al., "Piezoelectric Cantilever Microphone for Photoacoustic GAS Detector," <i>Integrated Ferroelectrics</i> , 2001, pp. 177-184, Vol. 35, OPA (Overseas Publishers Association) N.V.
	*de Paula, M.H. et al., "Optical microphone for photoacoustic spectroscopy," <i>J. Appl. Phys.</i> , 1 October 1988, pp. 3722-3724, Vol. 64, No. 1, American Institute of Physics
	*de Paula, M.H., et al., "High-sensitivity optical microphone for photoacoustics," <i>Rev. Sci. Instrum.</i> , June 1992, pp. 3487-3491, Vol. 63, No. 6, American Institute of Physics
	*International Search Report for PCT/FI2003/000684, dated February 23, 2004

*Copy attached

Examiner Signature	Date Considered
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with M.P.E.P. § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.